

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001591

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): B60J-7/043, B60J-7/057, E05F-15/14

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): B60J-7/043, B60J-7/057, B60J-7/047, B60J-7/05, B60J-7/053, E05F-15/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Canadian PD

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,725,092 (REINTGES ET AL.) 16 February 1988, column 3, line 20 - column 5, line 20	3,7,12,14,15,23,25,26
Y	*column 3, line 20 - column 5, line 20*	10,21
A	*column 3, lines 51-60*	11
Y	US 6,428,091 (ITO ET AL.) 06 August 2002, column 5, lines 24 -36; column 5, line 62-column 6, line 15	10,21
A	*column 5, lines 24 -36; column 5, line 62-column 6, line 15* *figures 2-5*	12,23
Y	US 6,390,544 (MANDERS ET AL.) 21 May 2002, column 2, lines 40-46	10,21

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search
27 October 2004 (27-10-2004)

Date of mailing of the international-type search report
26 November 2004 (26-11-2004)

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Information on patent family members

International application No.
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Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US4725092	16-02-1988	DE3529118 C1 US4725092 A	25-01-1990 16-02-1988
US6428091	06-08-2002	JP2001199245 A US6428091 B2	24-07-2001 06-08-2002
US6390544	21-05-2002	DE60003287 D1 DE60003287 T2 EP1150852 A1 JP2002536236 T NL1011251 C2 US6390544 B1 US6631944 B1 WO0047435 A1	17-07-2003 06-05-2004 07-11-2001 29-10-2002 10-08-2000 21-05-2002 14-10-2003 17-08-2000